



SEQUENCE LISTING

<110> Wary, Kishore, K.
Humtsoe, Joseph O.

<120> Uses of Vascular Endothelial Growth Factor
and Type I Collagen Inducible Protein (VCIP)

<130> D6563

<140> US 10/812,238
<141> 2004-03-29

<150> US 60/458,164
<151> 2003-03-27

<160> 42

<210> 1
<211> 15
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> peptide used to raise anti-VCIP-cyto-C16
antibody

<400> 1
Leu Ser Pro Val Asp Ile Ile Asp Arg Asn Asn His His Asn Met
5 10 15

<210> 2
<211> 20
<212> PRT
<213> Unknown

<220>
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<223> peptide used to raise anti-VCIP-RGD antibody

<400> 2
Glu Gly Tyr Ile Gln Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys
5 10 15
Val Gln Glu Ala Arg
20

<210> 3
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<223> forward primer for VCIP

<400> 3
ggaggatccc tcgcgcgcga gccagcgcca tgc 33

<210> 4
<211> 25
<212> DNA
<213> Artificial Sequence

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<223> reverse primer for VCIP

<400> 4
gtggcaccta catcatgttg tggtg 25

<210> 5
<211> 22
<212> DNA
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<220>
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<223> forward primer for human uPAR

<400> 5
cttcctgaaa tgcgtcaaca cc 22

<210> 6
<211> 22
<212> DNA
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<400> 6
tcatagctgg gaaaactgag gc 22

<210> 7
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<400> 7
ggctgtgcta tccctgtacg cc 22

<210> 8
<211> 22
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<400> 8
gggcagtgat ctcccttctgc at 22

<210> 9
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<400> 9
ggtctcctct gacttcaaca gcg 23

<210> 10
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<223> reverse primer for GAPDH

<400> 10
ggtactttat tgatggtaca tgac 24

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<223>	a peptide containing RGD sequence		
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Gly Arg Gly Asp Ser Pro			
	5		
<210>	12		
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<212>	PRT		
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<223>	HA-tag		
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Tyr Pro Tyr Asp Val Pro Asp Tyr Ala			
	5		
<210>	13		
<211>	311		
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<213>	Unknown		
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<223>	human VCIP		
<400>	13		
Met Gln Asn Tyr Lys Tyr Asp Lys Ala Ile Val Pro Glu Ser Lys			
	5	10	15
Asn Gly Gly Ser Pro Ala Leu Asn Asn Asn Pro Arg Arg Ser Gly			
	20	25	30
Ser Lys Arg Val Leu Leu Ile Cys Leu Asp Leu Phe Cys Leu Phe			
	35	40	45
Met Ala Gly Leu Pro Phe Leu Ile Ile Glu Thr Ser Thr Ile Lys			
	50	55	60
Pro Tyr His Arg Gly Phe Tyr Cys Asn Asp Glu Ser Ile Lys Tyr			
	65	70	75

Pro	Leu	Lys	Thr	Gly	Glu	Thr	Ile	Asn	Asp	Ala	Val	Leu	Cys	Ala
			80			85							90	
Val	Gly	Ile	Val	Ile	Ala	Ile	Leu	Ala	Ile	Ile	Thr	Gly	Glu	Phe
				95			100						105	
Tyr	Arg	Ile	Tyr	Tyr	Leu	Lys	Lys	Ser	Arg	Ser	Thr	Ile	Gln	Asn
				110			115						120	
Pro	Tyr	Val	Ala	Ala	Leu	Tyr	Lys	Gln	Val	Gly	Cys	Phe	Leu	Phe
				125			130						135	
Gly	Cys	Ala	Ile	Ser	Gln	Ser	Phe	Thr	Asp	Ile	Ala	Lys	Val	Ser
				140			145						150	
Ile	Gly	Arg	Leu	Arg	Pro	His	Phe	Leu	Ser	Val	Cys	Asn	Pro	Asp
				155			160						165	
Phe	Ser	Gln	Ile	Asn	Cys	Ser	Glu	Gly	Tyr	Ile	Gln	Asn	Tyr	Arg
				170			175						180	
Cys	Arg	Gly	Asp	Asp	Ser	Lys	Val	Gln	Glu	Ala	Arg	Lys	Ser	Phe
				185			190						195	
Phe	Ser	Gly	His	Ala	Ser	Phe	Ser	Met	Tyr	Thr	Met	Leu	Tyr	Leu
				200			205						210	
Val	Leu	Tyr	Leu	Gln	Ala	Arg	Phe	Thr	Trp	Arg	Gly	Ala	Arg	Leu
				215			220						225	
Leu	Arg	Pro	Leu	Leu	Gln	Phe	Thr	Leu	Ile	Met	Met	Ala	Phe	Tyr
				230			235						240	
Thr	Gly	Leu	Ser	Arg	Val	Ser	Asp	His	Lys	His	His	Pro	Ser	Asp
				245			250						255	
Val	Leu	Ala	Gly	Phe	Ala	Gln	Gly	Ala	Leu	Val	Ala	Cys	Cys	Ile
				260			265						270	
Val	Phe	Phe	Val	Ser	Asp	Leu	Phe	Lys	Thr	Lys	Thr	Thr	Leu	Ser
				275			280						285	
Leu	Pro	Ala	Pro	Ala	Ile	Arg	Lys	Glu	Ile	Leu	Ser	Pro	Val	Asp
				290			295						300	
Ile	Ile	Asp	Arg	Asn	Asn	His	His	Asn	Met	Met				
				305			310							

<210> 14
 <211> 18
 <212> PRT
 <213> Unknown

<220>
 <221> CHAIN
 <223> lipid phosphatase domain of human VCIP

<400> 14

Asp	Ile	Ala	Lys	Val	Ser	Ile	Gly	Arg	Leu	Arg	Pro	His	Phe	Leu
				5				10					15	
Ser	Val	Cys												

<210> 15
<211> 18
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> a rat peptide containing lipid
phosphatase domain

<400> 15
Asp Ile Ala Lys Tyr Ser Ile Gly Arg Leu Arg Pro His Phe Leu
5 10 15
Ala Val Cys

<210> 16
<211> 18
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> a mouse peptide containing lipid
phosphatase domain

<400> 16
Asp Ile Ala Lys Tyr Thr Ile Gly Ser Leu Arg Pro His Phe Leu
5 10 15
Ala Ile Cys

<210> 17
<211> 18
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> a human peptide containing lipid
phosphatase domain

<400> 17
Asp Leu Ala Lys Tyr Met Ile Gly Arg Leu Arg Pro Asn Phe Leu
5 10 15
Ala Val Cys

<210> 18
<211> 18

<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> a Drosophila peptide containing lipid phosphatase domain

<400> 18
Asn Ile Ala Lys Tyr Ser Ile Gly Arg Leu Arg Pro His Phe Tyr
5 10 15
Thr Leu Cys

<210> 19
<211> 18
<212> PRT
<213> C. elegans

<220>
<221> CHAIN
<223> a C. elegans peptide containing lipid phosphatase domain

<400> 19
Ile Val Thr Lys His Val Val Gly Arg Leu Arg Pro His Phe Leu
5 10 15
Asp Val Cys

<210> 20
<211> 10
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> a peptide containing RGD sequence

<400> 20
Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys
5 10

<210> 21
<211> 10
<212> PRT
<213> Unknown

<220>

<221> CHAIN
<223> a peptide containing a mutated RGD sequence

<400> 21
Asn Tyr Arg Cys Arg Ala Asp Asp Ser Lys
5 10

<210> 22
<211> 10
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> a peptide containing a mutated RGD sequence

<400> 22
Asn Tyr Arg Cys Arg Gly Glu Asp Ser Lys
5 10

<210> 23
<211> 13
<212> PRT
<213> Unknown

<220>
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<223> a peptide containing RGD sequence

<400> 23
Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys Val Gln Glu
5 10

<210> 24
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<221> primer_bind
<223> forward primer for phosphatase inactive
or dead form of PAP2b

<400> 24
gccggatcca tgcaaaaacta caagtacgac 30

<210> 25
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
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<223> reverse primer for phosphatase inactive
or dead form of PAP2b

<400> 25
gaggagccag gcgccctatg gacactgcgg caat 34

<210> 26
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
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<223> forward primer for phosphatase inactive
or dead form of PAP2b

<400> 26
tgccgcagtg tccatagggc gcctggctcc tca 33

<210> 27
<211> 24
<212> DNA
<213> Artificial Sequence

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<223> reverse primer for phosphatase inactive
or dead form of PAP2b

<400> 27
gcgatcgatc tacatcatgt tgtg 24

<210> 28
<211> 27
<212> DNA
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<220>
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<223> forward primer for N-terminal PAP2b truncation

<400> 28
gccggatcca tgcaaaagcg ggtgctg 27

<210> 29
<211> 25
<212> DNA
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<220>
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<223> reverse primer for N-terminal PAP2b truncation

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ggtatcgata agcttctaca tcatg 25

<210> 30
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<220>
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<223> forward primer for C-terminal PAP2b truncation

<400> 30
gccggatcca tgcaaaacta caagtacgac 30

<210> 31
<211> 25
<212> DNA
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<220>
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<223> reverse primer for C-terminal PAP2b truncation

<400> 31
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<210> 32
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<212> PRT
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<220>
<221> CHAIN
<223> a peptide containing a RGD sequence

<400> 32
Cys Arg Gly Asp Asp Ser
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 <210> 33
 <211> 24
 <212> DNA
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 <220>
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 <223> sense primer for human Alu sequence

 <400> 33
gttgcccaag ttggagtgca atgg 24

 <210> 34
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 <220>
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 <223> anti-sense primer for human Alu sequence

 <400> 34
acaatggctc acgcctgtaa tccc 24

 <210> 35
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 <212> DNA
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 <220>
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 <223> sense primer for mouse GAPDH

 <400> 35
tggagtctac tggtgtcttc accaccatg 29

 <210> 36
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 <212> DNA
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<220>
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<223> anti-sense primer for mouse GAPDH

<400> 36
gcaggagaca acctggtcct cagtg 25

<210> 37
<211> 6
<212> PRT
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<220>
<223> amino acid sequence for apical sorting of PAP2a

<400> 37
Phe Asp Lys Thr Arg Leu
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<210> 38
<211> 9
<212> PRT
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<220>
<221> UNSURE
<222> 2, 3, 4, 5, 6, 7
<223> lipid phosphatase motif of GST-VCIP-RGD
protein; Xaa is any amino acid at positions
2, 3, 4, 5, 6, 7

<400> 38
Lys Xaa Xaa Xaa Xaa Xaa Xaa Arg Pro
5

<210> 39
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> motif of GST-VCIP-RGD protein

<400> 39
Pro Ser Gly His

<210> 40
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<212> PRT
<213> Artificial Sequence

<220>
<221> UNSURE
<222> 3, 4, 5, 6, 7, 9, 10, 11
<223> motif of GST-VCIP-RGD;
Xaa is any amino acid at positions
3, 4, 5, 6, 7, 9, 10, 11

<400> 40
Ser Arg Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Asp
5 10

<210> 41
<211> 5
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<220>
<223> amino acid sequence in peptide derived
from VCIP

<400> 41
Cys Arg Gly Asp Asp
5

<210> 42
<211> 37
<212> PRT
<213> Artificial Sequence

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<223> amino acid sequence of PAP2b in the
pGst-PAP2b-C-cyto construct

<400> 42
Ser Asp Leu Phe Lys Thr Lys Thr Thr Leu Ser Leu Pro Ala Pro
5 10 15
Ala Ile Arg Lys Glu Ile Leu Ser Pro Val Asp Ile Ile Asp Arg
20 25 30
Asn Asn His His Asn Met Met
35